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CATALOGUE

OF

SCIENTIFIC PAPERS.

(1800–1863.)

COMPILED AND PUBLISHED

BY THE

ROYAL SOCIETY OF LONDON.

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VOL. I.

1800-1863
Vol. I
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MONACENSIS.

PREFACE.

THIS Catalogue is intended to serve as an Index to the Titles and Dates of Scientific Papers contained in the Transactions of Societies, Journals, and other Periodical Works which have been published from the beginning of the present century to the end of the year 1863.

The need of some serviceable key to the vast body of scientific matter contained in Periodical Publications has been keenly felt by the cultivators of Science; and the utility of various Catalogues, Indexes, and works of like purpose which have at different times been produced has been thankfully acknowledged. For the most part, however, these works differ in scope and plan from the present, or apply to a different epoch. The most notable is the *Index Commentationum* of REUSS, which extends to sixteen quarto volumes, and took twenty years in publication. That great work is not limited, like the present Catalogue, to Scientific Papers; but, on the other hand, it applies only to Transactions of Societies, and while it comprehends the contents of those Transactions from their commencement, it reaches but a short way into the present century. Other Catalogues are devoted to special branches of knowledge; such are the *Bibliographia Zoologiæ et Geologiæ* of AGASSIZ published by the Ray Society, and the admirable *Bibliotheca Zoologica* of CARUS and ENGELMANN.

The present undertaking may be said to have originated in a communication from Dr. Joseph HENRY, Secretary of the Smithsonian Institution, to the Meeting of the British Association at Glasgow in 1855, suggesting the formation of a Catalogue of Philosophical Memoirs: this suggestion was favourably reported on by a Committee of the Association in the following year. The Committee recommended that the contemplated Catalogue should embrace the Mathematical and

Physical Sciences, but should not include Natural History, Physiology, Geology, Mineralogy, or Chemistry, which, it was suggested, would properly form the subject-matter of one or more distinct Catalogues; further, that the Catalogue should not be restricted to Memoirs in the Transactions of Societies, but should comprise also Papers in other Periodical Publications, and that it should begin with the year 1800.

In March 1857, General SABINE, then Treasurer and Vice-President of the Royal Society, brought the matter before the President and Council of that body, and requested, on the part of the British Association, the co-operation of the Royal Society in the project; whereupon a Committee * was appointed, "to take into "further consideration the formation of such a Catalogue, and to report to the "Council on the precise mode of preparing and dealing with the manuscript, and "on the probable cost of getting it ready for the Press."

In June of the same year that Committee presented a preliminary Report, in which, besides entering into various particulars, they recommended that the main publication should be a "Serial Index," that is, a list of the Papers in each Series of Transactions, Journals, or other Periodical Works, put down in the order in which they occur in the several Volumes; and that to this, other Indexes should be attached,—an Index of Authors' names certainly, and a classified Index of Subjects, if it could be done. In regard to the matter to be included, the Report agreed substantially with that presented to the British Association.

No further step was taken by the British Association, or by the Royal Society in co-operation with that body; but the President and Council of the Royal Society, acting on the recommendations contained in a Report of the Library Committee, dated 7th January 1858, resolved that the preparation of a Catalogue of Scientific Memoirs should be undertaken by the Royal Society independently, and at the Society's own charge. It was then also determined not to limit the scope of the Catalogue to Physics and Mathematics, as had been contemplated, but to extend it to all the branches of Natural Knowledge for the promotion of which the Royal Society was instituted, excluding matter of a purely technical or professional character.

* The Committee consisted of Mr. Cayley, Professor De Morgan, Mr. Graham, Mr. R. Grant, Professor W. H. Miller, and Professor Stokes.

In resolving on this undertaking the Council did not propose to task the Society with more than the preparation of a Manuscript Catalogue for use in their own Library; but it was hoped that eventually the Catalogue might be printed for general use at the public expense, or by means of funds contributed from other sources.

The work was accordingly begun without delay, and has been carried on under the superintendence of the Library Committee. Four copies were made of the titles of the Papers to be catalogued; one set of these has been bound up to form a manuscript "Serial Index," now deposited in the Society's Library, others were reserved to be arranged for printing.

A large proportion of the Periodical Works containing Titles to be extracted was at hand in the Royal Society's Library, and to these very extensive additions have been made during the progress of the work. Another rich store of materials existed in the Library of the British Museum. Valuable contributions were also supplied by the Libraries of the Chemical, the Entomological, the Geological, the Linnean, the Pharmaceutical, the Royal Geographical, the Royal Medical and Chirurgical, and the Zoological Societies, the London Institution, the Office of Patents, the Royal College of Surgeons, the Royal Institution, the School of Mines, and the University of Cambridge; and the President and Council gratefully acknowledge their obligations to the Governing Bodies and Librarians of these Institutions for the facilities thus afforded.

With a further view to completeness, printed lists of the Periodical Publications already included were from time to time transmitted to Foreign Academies and Scientific Institutions, with a Circular letter from the Foreign Secretary requesting to be informed of deficiencies which might be supplied by the Libraries of the Institutions addressed. In response to this application a valuable contribution was obtained, through the obliging intervention of W. Ritter von Haidinger, of nearly 2,000 Titles from the Library of the Imperial and Royal Geological Institute of Vienna, carefully extracted by the Librarian, M. Senoner. Valuable aid was also afforded from Prague through the good offices of Professor John Czermak.

As the preparation of the manuscript approached completion, it became expedient

to endeavour to make arrangements for the printing of the work. After due consideration it was decided that the publication should consist of, first, the Titles of Papers printed in full and arranged alphabetically according to the Authors' names; and, secondly, an Alphabetical Index of the subjects of the Papers so far as they appear in the Titles.

As the Royal Society had already expended a large sum in compiling the Catalogue, and were prepared to undertake the further expense of arranging it for printing and of correcting the press, and as the publication of the work was calculated to be of public advantage, it was resolved to propose to Her Majesty's Government that it should be printed at the cost of the nation; and that, after the presentation of a certain number of copies to Scientific Institutions at home and abroad, the remainder should be offered for sale at the price of the paper and printing only, and the proceeds applied in reduction of the outlay on the part of the Government.

A communication was accordingly made to Viscount PALMERSTON, First Lord of the Treasury; and the proposal of the President and Council, having been favourably received by his Lordship and by Mr. GLADSTONE the Chancellor of the Exchequer, was approved by the Lords Commissioners of the Treasury. The Minute of their Lordships, dated 28th November 1864, adopting the proposal, concludes in the following terms:—

"Having regard to the importance of the work, with reference to the promotion "of scientific knowledge generally, to the high authority of the source from which "it comes, and to the labour gratuitously given by Members of the Royal Society "to its production, my Lords consider themselves justified in having the work "printed at the cost of the public, with the understanding that, reserving such a "number of copies for presentation as my Lords, in communication with the "President of the Royal Society, may hereafter determine, the work shall be sold "at such a price as it may be calculated will repay the cost of printing.

"Their Lordships, however, desire it to be understood that the work shall go "forth to the public under the authority of the Royal Society, by the exertions of "whose Members this important aid to the study of Science has been produced."

INTRODUCTION.

a. Subject-matter of the Catalogue.

THE following Catalogue is intended to contain the Title of every Scientific Memoir which appears in the various Transactions and Proceedings of Scientific Societies, and in the Scientific Journals published within the time which it comprehends; with the Reference, the Date, the Author's name, and the number of pages in the Memoir.

As the Transactions of many learned Societies contain both scientific and non-scientific matter, it was necessary to make a selection, and to exclude such Papers as were merely literary, technical, or professional; and a similar course has been pursued with regard to Scientific Journals. It has not always, however, been possible, or even advisable, to adhere strictly to this rule, which has been construed so as to admit rather than exclude any matter as to which there might be a doubt. Thus many Medical and Surgical Papers have been included on account of their containing Anatomical or Physiological matter. In like manner accounts of voyages and travels occurring in Serial Works have been admitted when they contained matter touching upon Natural History, Geology, or Terrestrial Physics. Records of Meteorological Observations have been omitted, unless they contained scientific calculations, important generalizations, or new theories: but the Appendices to volumes of Astronomical Observations and to Astronomical Almanacs have been treated like Scientific Journals. Reports from Committees are included, but mere notices and extracts are omitted. Papers which were published only in the form of separate pamphlets are excluded; but it has been thought advisable to relax the rule in some cases, especially with regard to certain Academical Programmes to which scientific dissertations are appended.

A list of the Works indexed, nearly fourteen hundred in number, arranged alphabetically according to the contractions employed in the Catalogue, will be found at the end of this Introduction; and in it those volumes which could not be procured, and the absence of which breaks the continuity of a series, have been carefully marked as deficient. The Royal Society hope that the publication of these deficiencies may lead to copies of the Titles contained in the missing volumes being forwarded to them for insertion as the Catalogue proceeds.

When possible, both the Volume and the Year have been given, one reference acting as a check upon the other; and this avoids the necessity of marking the various Series. In the case of Transactions of Societies, Ephemerides, and Astronomical Almanacs, the year to which the volume belongs, and not the year of publication, has been given. Thus the Nautical Almanac for 1863 was published in 1860, but the former year is adopted in the Catalogue as that by which this particular volume is known.

A date enclosed in brackets marks the time when a paper was read, which occasionally precedes by some years the date of the volume in which it is printed.

b. Period of Time embraced.

The Catalogue is intended to comprise Transactions and Journals published in the period between 1800 and 1863 inclusive.

A few important series, beginning towards the end of the last century, which it seemed undesirable to break, are indexed from their commencement. The point at which any serial work was taken up may at once be seen by turning to the list at p. xiii. It has also been necessary to exceed the limit in the other direction, so as to include Memoirs which were read in 1863, though not printed until a year or more after.

c. General Arrangement of the Catalogue.

The Titles are arranged alphabetically according to Authors' names, the arrangement under the head of any one Author being chronological. Memoirs, which are the work of two or more Authors, are entered under the name of each; Reports of Committees under the name of the Reporter.

In arranging the alphabetical order of Authors' names, the practice of the respective countries has been followed as far as possible, and hence the following rules have been adopted :—

1. The prefixes, *D'*, *Da*, *Dal*, *De*, *Del*, *Della*, *Van*, *Von*, are not considered as part of the name, thus De Cagnoli will be found under Cagnoli, Da Costa under Costa, Van Beneden under Beneden, etc. To avoid confusion the Flemish article *De* is treated in like manner. English names, such as De Morgan, De la Beche, Van Mildert, are to be excepted, the prefixes having no signification in our language.

2. Names preceded by *Du*, *Des*, *Mac*, and *O'* will be found under the letters D, M, and O.

3. Names preceded by *Le*, *La*, or *Les*, will be found under the letter L.

Where a rigorous adherence to these rules would have caused confusion, a cross reference directs the reader to the place where the Author's papers are to be found : thus the papers of D'Arcet, De Candolle, and De la Rive, are placed under D, and cross references are given under A, C, and L.

4. In English and Dutch compound names, the last name is preferred ; in French, Spanish, and Portuguese, the first.

No pains have been spared to assign the Memoirs to their respective Authors ; but it is possible there may be some confusion, when there are two persons of the same name, arising from the absence, in many cases, of Christian names, or even the initials of Christian names, or other distinctive marks, to guide the Compilers of the Catalogue.*

5. When writers have been known by more than one name, as in the case of persons who have changed their names, who have been ennobled, or who have been raised in the peerage, their Papers will be found all together under their last name or title, cross references alone being given after their earlier names or titles.

6. Pseudonyms will be found under their proper letter; but the Papers have been indexed under the Author's real name, when it could be discovered.

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* None but those who have been engaged in a task of this kind can form any idea of the difficulty occasioned by such omissions. It is hoped that this notice may have some effect in inducing contributors to Scientific Journals to give their names in full.

7. With respect to Papers signed with initials, there were two methods: to arrange them by the first or by the last letter. The latter course has been adopted, on the presumption that the last letter was the initial of the Author's family name, as the others were of his Christian names. By this means it has been found possible to identify the Authors in several cases.

8. The Titles of Anonymous Papers will be printed under a separate head at the end of the first part of the present work.

9. The chronological arrangement of the Papers written by any one Author is determined by the date of the volume in which each is printed, and not by that of the reading.

When a Memoir is found in more than one Serial Work, the additional references are placed alphabetically.

d. Abbreviation, Supply, or Translation of Titles in certain cases.

In the few instances in which very long Titles have been curtailed, the first words of the Title are given at such length as to make identification easy, and the abbreviated Title, if any, employed in the work itself has been adopted.

When communications appear without a Title, or are merely described as a note or letter from the Author, a Title has been supplied by the Compiler. Such Titles are distinguished by being enclosed within brackets.

In general, Titles are entered in the Catalogue in the languages in which they were written. An exception occurs in the case of Russian, Polish, and Hungarian Titles, the first few words of which are given (so as to identify the paper), followed by a translation into English enclosed within brackets.

e. Mode of dealing with Reprints, Translations, Abstracts, and Reports.

It was at first intended to index original Memoirs only, to the exclusion of Reprints and Translations, but it was soon perceived that the value of the Work would be greatly increased if the original reference were supplemented by references to other sources where Reprints and Translations might be found. It will sometimes happen that scientific students may have access to Journals containing reprints of

Memoirs, and not to the work in which they originally appeared; or they may be unacquainted with the language in which the Memoirs were written; in either of which cases they will find the additional references very useful. The language of the Translation may generally be inferred from the nationality of the work in which it appears, unless otherwise specified.

Whenever the Royal Society has not been able to procure the original Memoir, or a Reprint, the abbreviation [*Transl.*] is placed after the Title.

Abstracts of Memoirs have been indexed as well as the Memoirs themselves. As the first and last page are given in each reference, the reader will generally have little difficulty in distinguishing Abstracts from entire Memoirs.

Reports on Papers are usually omitted; but as there are some which have an independent value, they have in certain cases been indexed under the name of the Reporter. In like manner many of the Éloges of scientific men read before the Institute of France have been given.

In this work no Title has been inserted at second hand. With the exception of those from works indexed abroad in whole or in part (marked respectively by a star (*) or an obelus (†) in the List of Abbreviations), all the Titles have been extracted under the immediate superintendence of the Royal Society.

LIST OF ABBREVIATIONS.

A.

Aarau, Archiv der Med.... Archiv der Medizin, Chirurgie, und Pharmazie. Von einer Gesellschaft Schweizerischer Aerzte. Aarau. 8vo. Vols. I–IV. 1816–17.

Abbeville, Bull. Soc. Linn. Compte Rendu et Bulletin de la Société Linnéenne du Nord de la France. 8vo. Abbeville. Vol. I. 1840.

Abbeville, Mém. Soc. Émul. Mémoires de la Société d'Émulation d'Abbeville. 8vo. Abbeville. 1836–60.

Acad. Cæs. Leop. Nova Acta. Nova Acta physico-medica Academiæ Cæs. Leopoldino-Carolinæ Naturæ Curiosorum. 4to. Erlangen, Bonn, Breslau. Vols. IX–XXXI. 1818–64.

Acquoy, Tijdschrift..... Tijdschrift voor Wis-, Natuur-, en Wertuigkunde; onder redactie van J. Acquoy, H. W. Bloen, &c. 8vo. Amsterdam. 1860. (Stuk I., pp. 1–114.)

Actes de la Soc. Helvétique Actes de la Société Helvétique des Sciences Naturelles. 8vo. Lausanne, 1829, 1830, 1843, 1861; Genève, 1832, 1845; Neuchâtel, 1837; Fribourg, 1840; Sion, 1852; Porrentruy, 1853; Chaux de Fonds, 1855.

Afhandl. Fysik ..... Afhandlingar i Fysik, Kemi, och Mineralogi; utgifne af W. Hisinger, J. Berzelius, etc. 8vo. Stockholm. Vols. I–VI. 1806–18.

African Assoc. Proc..... Proceedings of the African Association for promoting the Discovery of the Interior Parts of Africa. 8vo. London. Vols. I–II. 1810.

Agen, Soc. Agric. Recueil. Recueil des Travaux de la Société d'Agriculture, Sciences, et Arts d'Agen. 8vo. Agen. Vol. VIII. 1857.

***Agram, ProgrammGymnas.** Programm des k.k. Akademischen Gymnasiums zu Agram. 1855.

Agric. Soc. Journ. ..... Journal of the Royal Agricultural Society of England. 8vo. London. Vols. I–XXIV. 1840–63.

Aix, Acad. Mém..... Recueil de Mémoires de la Société des Amis des Sciences, des Lettres, de l'Agriculture, et des Arts à Aix. 8vo. Aix. Vols. I–III. 1819–27. *Continued as the* "Mémoires de l'Académie d'Aix." Vols. IV–VIII. 1840–61.

Albany Inst. Trans..... Transactions of the Albany Institute. 8vo. Albany. Vol. II. 1833–52. Vol. IV. 1858–64.

Allelod. Soc. Trans..... The Transactions of the Allelodidactic Society. 8vo. London. 1848.

†Allg. Deutsch. Nat. Hist. Zeitg. Allgemeine Deutsche naturhistorische Zeitung. Im Auftrage der Gesellschaft *Isis* in Dresden. 8vo. Dresden und Leipzig. Vols. I–II. 1846–47. 8vo. Hamburg und Dresden. Vols. I–III. 1855–57.

Allgem. Berg. Zeitung..... Allgemeine berg- und hüttenmännische Zeitung; mit besonderer Berücksichtigung der Mineralogie und Geologie; red. von Carl Hartmann. 4to. Quedlinburg. Vols. I–IV. 1859–62.

Allier, Bull. Soc. Émul. ... Bulletin de la Société d'Émulation du département de l'Allier: Sciences, Arts, et Belles-Lettres. 8vo. Moulins. Vols. I–VIII. 1850–63.

Alpina ..... Alpina, eine Schrift der genauen Kenntniss der Alpen gewidmet; von Carl Ulisses von Salis und J. R. Steinmueller. 8vo. Winterthur. Vols. I–IV. 1806–9.

***Altenburg, Mittheil.** ..... Mittheilungen aus dem Osterlande; herausgegeben von der Naturforschenden Gesellschaft zu Altenburg. 8vo. Altenburg. Vols. II–XVI. 1838–64.

Amer. Acad. Proc. ..... Proceedings of the American Academy of Arts and Sciences. 8vo. Boston and Cambridge. Vols. III–VI. 1852–63.

Amer. Assoc. Proc. ..... Proceedings of the American Association for the Advancement of Science. 8vo. Washington. 1848–60.

Amer. Ethnol. Soc. Trans. Transactions of the American Ethnological Society. 8vo. New York. 1845.

Amer. Geogr. Soc. Bull. ... Bulletin of the American Geographical and Statistical Society. 8vo. New York. Vols. I–II. 1852–56.

Amer. Geogr. Soc. Journ. . Journal of the American Geographical and Statistical Society. 4to. New York. 1859. Nos. 1, 2, 3, and 10.

Amer. Geogr. Soc. Proc. .. Proceedings of the American Geographical and Statistical Society of New York. 8vo. New York. Vols. I–II. 1862–63.

Amer. Geol. and Nat. Assoc. Reports. Reports of the Meetings of the Association of American Geologists and Naturalists, at Philadelphia in 1840 and 1841, and at Boston in 1842; embracing its Proceedings and Transactions. 8vo. Boston. 1843.

Amer. Journ. Med. Sci. ... American Journal of the Medical Sciences. 8vo. Philadelphia. Vols. I–XXVI., 1828–40; *New Series*, I–XLV., 1840–63.
[*Vols.* xiv. *and* xv. *of Second Series wanting.*]

Amer. Med. Assoc. Trans. . Transactions of the American Medical Association. 8vo. Philadelphia. Vols. I–XIII. 1848–60.
[*Vol.* iv., 1851, *wanting.*]

Amer. Med. Phil. Reg. .... The American Medical and Philosophical Register; or Annals of Medicine, Natural History, Agriculture, and the Arts; by D. Hosack and J. W. Francis. 8vo. New York. Vols. I-IV. 1810–13.

Amer. Mineral. Journ. .... The American Mineralogical Journal; conducted by A. Bunce. 8vo. New York. Nos. 1–3 of Vol. I., 1810.

Amer. Pharm. Assoc. Proc. Proceedings of the American Pharmaceutical Association. 8vo. Philadelphia. Vols. VI-XII. 1857–63.
[*Vol.* x., 1861, *wanting.*]

Amer. Phil. Soc. Proc. .... Proceedings of the American Philosophical Society. 8vo. Philadelphia. Vols. I–IX. 1840–63.

Amer. Phil. Soc. Trans. ... Transactions of the American Philosophical Society, held at Philadelphia, for promoting useful knowledge. 4to. Philadelphia. Vols. I–VI., 1771–1809; *New Series*, Vols. I–XII., 1818-63.

Amer. Polytechn. Journ. .. The American Polytechnic Journal; ed. by Page, Greenough, and Fleischmann. 8vo. Washington. Vols. I–IV. 1853–54.

Amer. Q. Journ. Agric. .... American Quarterly Journal of Agriculture and Science; conducted by Emmons and Prime. 8vo. Albany. Vols. I–IV. 1845–46.
[*Vol.* iii., 1846, *and* 1*st part of Vol.* iv., *wanting.*]

American Journ. Pharm. . . American Journal of Pharmacy; published by the Philadelphia College of Pharmacy, and edited by R. E. Griffith. 8vo. Philadelphia. Vols. I–XXXII. 1836–60. [*Vols.* ix. *to* xiv. *wanting.*]

American Med. Recorder . . American Medical Recorder. 8vo. Albany. Vols. XIII–XIV. 1828.

Amici, Giorn. Toscano . . . . Giornale Toscano di Scienze medichi, fisiche, e naturali; dal G. B. Amici, Bufalini, etc. 8vo. Pisa. 1843.

Amiens, Mém. Acad. Sci. . . Mémoires de l'Académie des Sciences, Agriculture, Commerce, Belles-lettres, et Arts du département de la Somme. 8vo. Amiens. Vols. I–X. 1835–58.

Ammon, Monatsschrift f. Med. Monatsschrift für Medecin, Augenheilkunde, und Chirurgie; von F. A. von Ammon. 8vo. Leipzig. Vols. I–III. 1838–40.

Ammon, Zeitschr. Opthalm. Zeitschrift für die Ophthalmologie; von F. A. von Ammon. 8vo. Dresden. Vols. I–V. 1831–37.

Amsterdam, Archief Wisk. Genoots. Archief uitgegeven door het Wiskundig Genootschap, onder de Zinspreuk; "Een onvermoeide arbeid komt alles te boven." 8vo. Amsterdam. Vols. I–IV. 1856–59.

Amsterdam, Het Instituut. Het Instituut. fol. Amsterdam. 1842–43.

Amsterdam, Mengelwerk . Mengelwerk van uitgeleezene en andere Wis- en Natuurkundige Verhandelingen; door het Genootschap der Mathematische Wetenschappen, &c. 8vo. Amsterdam. Vols. I–II. 1816.

Amsterdam, N. Verhand. . Nieuwe Verhandelingen der eerste Klasse van het Koninklijk Nederlandsche Instituut van Wetenschapen, Letterkunde, en Schoone Kunsten te Amsterdam. 4to. Amsterdam. Vols. I–XIII. 1827–48. [*For other Series, see* Amsterdam, Verhand.]

Amsterdam, Onderz. Phys. Lab. Onderzoekingen gedaan in het Physiologisch Laboratorium van de Doorluchtige en Klinische Scholen te Amsterdam; door A. Heynsius. 8vo. Amsterdam. Vols. I–IV. 1863.

Amsterdam, Tijdschr. v. Nat. Wetens. Tijdschrift voor Natuurkundige Wetenschappen en Kunsten; door C. G. G. Reinwardt. 8vo. Amsterdam. 1e en 2e Stuk. 1810–11.

Amsterdam, Tijdschr. v. Wis. en Nat. Wetens. Tijdschrift voor de Wis- en Natuurkundige Wetenschappen, Letterkunde, en Schoone Kunsten te Amsterdam. 8vo. Amsterdam. 1848–52.

Amsterdam, Verhand. . . . . Verhandelingen der Eerste Klasse van het Koninklijk Nederlandsche Instituut van Wetenschappen, Letterkunde, en Schoone Kunsten te Amsterdam. 4to. Amsterdam. Vols. I–VII. 1812–25. *Third Series*, Vols. I–V., 1849–52; *Fourth Series*, Vols. I–IX., 1854–61. [*Second Series*, supra.]

Amsterdam, Verhand. Genoots. Geneesk. Verhandelingen van het Genootschap ter Bevordering der Genees- en Heilkunde te Amsterdam. 4to. Amsterdam. Vols. I–II. 1848–58.

Amsterdam, Verslag. Akad. Verslagen en Mededeelingen der Koninklijke Akademie van Wetenschappen, Letterkunde, en Schoone Kunsten te Amsterdam. 8vo. Amsterdam. Vols. I–XVI. 1853–64.

Amsterdam, Verzam. Bericht. Navig. Verzameling van Berichten over eenige onderwerpen des Navigatie, etc. 8vo. Amsterdam. Vols. I–IV. 1803–25.

Analyst . . . . . The Analyst, a Monthly Periodical of Science, &c. 8vo. London, Worcester, and Birmingham. Vols. I–X. 1834–40.

Angers, Ann. Soc. Linn. . . . . Annales de la Société Linnéenne du département de Maine et Loire. 8vo. Angers. 1853–61.

Angers, Mém. Soc. Agric. . Mémoires de la Société d'Agriculture, Sciences, et Arts. 8vo. Angers. Vols. I–VI., 1831–49; Vols. I–VIII., 1850–57; Vols. I–VI., 1858–63.

Ann. Ancienne Normandie. Annuaire des cinq Départements de l'Ancienne Normandie, par l'Association Normande. 8vo. Caen et Paris. Vol. XXIII. 1857.

Ann. di Med. ..... Annali di Medicina. 8vo. Milano. Vols. I–II. 1802.

Ann. Gén. Sci. Phys. ..... Annales générales des Sciences Physiques ; par Bory de St. Vincent, Drapiez, et Van Mons. 8vo. Bruxelles. Vols. I–VIII. 1819–21.

Ann. Génie Civil ..... Annales du Génie Civil ; Recueil de Mémoires sur les Mathématiques pures et appliquées, l'Astronomie, la Chimie, la Physique, &c. 8vo. Paris. Vols. I–II. 1862–63.

Ann. Hygiène Publ. ..... Annales d'Hygiène publique. 8vo. Paris. Vols. I–L., 1829–53 ; *New Series*, Vols. I.–XIX, 1854–63.

Ann. Inst. d. Provinces ... Annuaire de l'Institut des Provinces, des Sociétés Savantes, et des Congrès Scientifiques. 8vo. Paris, Caen, &c. Vols. for 1851, 1853, and 1862.

Ann. Med. Surg. ..... Annals of Medicine and Surgery, or Records of the occurring Improvements and Discoveries in Medicine, Surgery, and their immediately connected Arts and Sciences. London. 8vo. Vols. I–II., 1817–18.

Ann. Mét. de France ..... Annuaire Météorologique de la France. 8vo. Paris. Vols. I–IV. 1849–52. [*See also* France.]

Ann. Mines de Russie. .... Annuaire du Journal des Mines de Russie. 8vo. Saint-Pétersbourg. Vols. I–IX. 1835–42. [*See also* Russie.]

Ann. Nat. Hist. ..... Annals of Natural History, or Magazine of Zoology, Botany, and Geology ; by Sir W. Jardine, &c. 8vo. London. *First Series*, Vols. I–XX., 1838–47 ; *Second Series*, Vols. I–XX., 1848–57 ; *Third Series*, Vols. I–XII., 1858–63.

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$$(a)\ \gamma_0 - n_1\gamma_1 + n_2\gamma_2 - \text{etc.} + (-1)^n \gamma_n$$
$$(b)\ \gamma_0 + n_1\gamma_1 + n_2\gamma_2 + \text{etc.} + \gamma_n.$$

in welchen die Grössen γ willkührlich und die Coefficienten Binomialcoefficienten des ganzen Exponenten n sind, mittels höherer Differenzen und Summen. Crelle, Journ. XXXI., 1846, pp. 235–246.

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$$x^t \equiv 1 \text{ (mod. } M).$$

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1. Productum ex omnibus radicibus primitivis moduli imparis p unitate sec. p congruum est, excepto casu in quo $p=3$.

2. Summa omnium radicum primitivarum moduli primi imparis p est $\equiv 0$, quando $p-1$ per quadratum aliquod divisibilis est; quando vero per nullum quadratum divisibilis, summa est $\equiv \pm 1$, prout multitudo factorum ipsius $p-1$ primorum est *par* aut *impar*. Crelle, Journ. XXXI., 1846, pp. 326–328.

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—— **124.** Nouvelles recherches de physiologie végétale. L'Institut, II., 1834, pp. 66–68.

—— **125.** Sur quelques détérminations d'astronomie ancienne, étudiées comparativement chez les Égyptiens, les Chaldéens et les Chinois. L'Institut, II., 1834, pp. 218–219.

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—— **138.** Analyse des Tables de Réfraction construites par Newton, avec l'indication des procédés numériques par lesquels il a pu les calculer. Journ. des Savants, 1836, pp. 735–754.

—— **139.** Méthodes mathématiques et expérimentales, pour discerner les mélanges et les combinaisons définies ou non définies qui agissent sur la lumière polarisée; suivies d'applications aux combinaisons de l'acide tartrique avec l'eau, l'alcool, et l'esprit de bois. [1836.] Paris, Comptes Rendus, II., 1836, pp. 53–61; Paris, Mém. Acad. Sci. XV., 1838, pp. 93–279; Poggend. Annal. XXXVIII., 1836, pp. 179–192.

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Biot, *Jean Baptiste.* **143.** Sur les réfractions astronomiques. Paris, Comptes Rendus, III., 1836, pp. 237–244.

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—— **148.** Note sur des matières pierreuses employées à la Chine dans les temps de famine, sous le nom de farine de pierre. Paris, Comptes Rendus, IV., 1837, pp. 301–304 ; Annal. de Chimie, LXXII., 1839, pp. 215–219 ; Bibl. Ital. LXXXVII., 1837, pp. 271–274 ; Edinb. New Phil. Journ. XXIII., 1837, pp. 208–211.

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—— **164.** Sur un moyen de puiser de l'eau de mer à de grandes profondeurs. Paris, Comptes Rendus, VII., 1838, pp. 203–206.

—— **165.** Sur l'emploi des distances zénithales, réciproques et simultanées, pour déterminer les erreurs des réfractions, &c. Paris, Comptes Rendus, VII., 1838, pp. 291–297.

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Biot, *Jean Baptiste.* **199.** Sur la polarisation lamellaire. Paris, Comptes Rendus, XII., 1841, pp. 967–979 ; XIII., 391–397; Paris, Acad. Sci. Mém. XVIII., 1842, pp. 539–725.

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—— **202.** Particularités relatives aux cristaux d'apophyllite. Paris, Comptes Rendus, XIII., 1841, pp. 839–840.

—— **203.** Sur les lunettes achromatiques à oculaires multiples. Paris, Comptes Rendus, XIII., 1841, pp. 1039–1046 ; Paris, Acad. Sci. Mém. XIX., 1845, pp. 3–309 ; Annal. de Chimie, III., 1841, pp. 385–394.

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Biot, *Jean Baptiste.* **212.** [Relations des lieux de la Lune avec l'ancienne année Égyptienne.] Article sur les "Tables pour le calcul des syzygies &c.," de M. Largetau. Journ. des Savants, 1843, pp. 434–441, 481–496.

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Biot, *Jean Baptiste.* **242.** Sur les trois observations d'Hipparque. Paris, Comptes Rendus, XXVII., 1848, pp. 161–162; Journ. des Savants, 1848, pp. 449–459, 569–575.

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—— **244.** Sur l'utilité d'une précaution hygiénique trop peu employée [examination des urines]. Paris, Comptes Rendus, XXVII., 1848, pp. 617–621.

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—— **246.** Note relative aux instruments et aux procédés pratiques des Gromatici veteres. Journ. des Savants, 1849, pp. 238–250.

—— **247.** [Sur la respiration des animaux, et sur les modifications qu'elle produit dans l'air.] Revue des "Recherches chimiques sur la respiration des animaux" par Regnault et Reiset. Journ. des Savants, 1849, pp. 490–505, 513–531, 577–594, 691–697.

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Boon Mesch, *H. C. van der.*
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Boon Mesch, *H. C. van der.*
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—— **19.** Abstract of a Memoir on the possibility of obtaining Prussiate of Potash free from iron; the unalterability of the Prussic Acid at high temperatures; and the true nature of the combinations of this Acid with different bases. (*Transl.*) Nicholson, Journ. IX., 1804, pp. 278–282; X., 32–33.

—— **20.** Experiments made for the purpose of ascertaining whether there be a real Acid of Cobalt; or, in other words, whether Cobalt actually unites with Oxygen to the degree necessary for acidification. (*Transl.*) Tilloch, Phil. Mag. XVIII., 1804, pp. 97–106.

—— **21.** Der bisher unter dem Namen Agust-Erde aufgeführte Stoff ist nicht einfach sondern eine Verbindung der Phosphorsäure mit Kalk. Trommsdorff, Journ. d. Pharm. XII., 1804 (*St.* 2), pp. 31–44.

—— **22.** Prüfung der Bertholletischen Methode das Kali durch Hülfe des Weinalkohols rein darzustellen. Trommsdorff, Journ. d. Pharm. XII., 1804 (*St.* 2), pp. 59–66.

—— **23.** Ueber die vortheilhafteste Abscheidungsart der conzentrirten Essigsäure aus dem essigsaurem Blei (Bleizucker). Trommsdorff, Journ. d. Pharm. XII., 1804 (*St.* 2), pp. 67–71.

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—— **28.** Muriatic Solution of Tin in part decomposed into metallic crystallized Tin. Tilloch, Phil. Mag. XXIII., 1805, p. 112.

—— **29.** Beitrag zur näheren Kenntniss der weinsteinsauren Eisenoxyde, einiger Eisentinkturen, und einiger andern pharmaceutisch-chemischen Präparate. Trommsdorff, Journ. d. Pharm. XIII., 1805 (*St.* 2), pp. 139–207.

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—— **31.** Analyse des Hyaliths von Frankfurt am Main. Gehlen, Journ. I., 1806, pp. 202–204.

—— **32.** Beobachtungen über eine Art von Schmelzung des kohlensauern Kalks. Gehlen, Journ. I., 1806, pp. 271–275; Annal. de Chimie, LXII., 1807, pp. 50–53.

—— **33.** Analyse des gelblich-weissen dichten Kalksteins (vulgo Mehlbass), vom Ettersberge bei Weimar. Gehlen, Journ. II., 1806, pp. 18–21.

—— **34.** Untersuchung eines unter dem Namen Trippel (terra tripolitana) in den Apotheken vorkommenden Fossils. Gehlen, Journ. II., 1806, pp. 21–24.

—— **35.** Analyse des dichten Bitterkalks (Haberle), eines unter dem Namen: verhärtete reine Talkerde, vorkommenden Fossils. Gehlen, Journ. II., 1806, pp. 24–27.

—— **36.** Analyse des Polirschiefers (Silex schistus politorius, *W.*) vom Kritschelberge. Gehlen, Journ. II., 1806, pp. 28–31.

—— **37.** Analyse des Saugschiefers (Silex schistus suctorius) Haberle's, des mürben und des verhärteten. Gehlen, Journ. II., 1806, pp. 31–34.

—— **38.** Wiederholung der Analyse des Klebschiefers von Menilmontant. Gehlen, Journ. II., 1806, pp. 34–38.

—— **39.** Neuer Beitrag zur Verbesserung der Bereitungsart der reinen Weinsteinsäure. Trommsdorff, Journ. d. Pharm. XIV., 1806, pp. 104–117.

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—— **42.** Analyse des Eisenglimmers, des rothen Eisenrahms und des Magneteisensteins. Gehlen, Journ. III., 1807, pp. 104–110.

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—— **81.** Méthode générale pour la détermination des racines réelles des équations algébriques ou même transcendantes. Paris, Comptes Rendus, V., 1837, pp. 357–365.

—— **82.** Sur les vibrations de l'éther dans un milieu ou dans le système de deux milieux, lorsque la propagation de la lumière s'effectue de la même manière en tous sens autour de tout axe parallèle à une droite donnée. Paris, Comptes Rendus, VII., 1838, pp. 751–754.

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—— **104.** Sur la théorie des nombres et en particulier sur les formes quadratiques des nombres premiers. Paris, Comptes Rendus, IX., 1839, pp. 473–474.

—— **105.** Mémoire sur la constitution des molécules intégrantes et sur les mouvements atomiques des corps cristallisés. Paris, Comptes Rendus, IX., 1839, pp. 558–560.

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—— **110.** Note sur les milieux dans lesquels un rayon simple peut être complètement polarisé par réflexion. Paris, Comptes Rendus, IX., 1839, pp. 726–727.

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—— **115.** Sur les fonctions alternées et sur diverses formules d'analyse. Paris, Comptes Rendus, X., 1840, pp. 178–181.

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—— **123.** Considérations nouvelles sur la théorie des suites et sur les lois de leur convergence. Paris, Comptes Rendus, X., 1840, pp. 640–657.

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—— **148.** Sur les variations séculaires des éléments elliptiques dans le mouvement des planètes. Paris, Comptes Rendus, XII., 1841, pp. 189–204.

—— **149.** Rapport sur une méthode abrégée de multiplication, par M. Thoyer. Paris, Comptes Rendus, XII., 1841, pp. 242–246, 941–946.

—— **150.** Mémoire sur diverses formules d'analyse. Paris, Comptes Rendus, XII., 1841, pp. 283–298.

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—— **152.** Note sur la formation des fonctions alternées qui servent à résoudre le problème de l'élimination. Paris, Comptes Rendus, XII., 1841, pp. 414–426.

—— **153.** Sur diverses formules relatives à l'algébre et à la théorie des nombres. Paris, Comptes Rendus, XII., 1841, pp. 698–711, 813–825.

—— **154.** Mémoire sur des formules générales qui se déduisent du calcul des résidus. Paris, Comptes Rendus, XII., 1841, pp. 871–879.

—— **155.** Sur la détermination et la réduction des intégrales dont les dérivées renferment une ou plusieurs fonctions implicites d'une même variable. Paris, Comptes Rendus, XII., 1841, pp. 1029–1045.

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Cauchy, *Augustin Louis.* **158.** Mémoire sur l'intégration des systèmes d'équations aux différentielles partielles. Paris, Comptes Rendus, XIII., 1841, pp. 1–15.

—— **159.** Sur l'emploi de la transformation des coordonnées pour la détermination et la réduction des intégrales définies multiples. Paris, Comptes Rendus, XIII., 1841, pp. 34–40.

—— **160.** Mémoire sur diverses transformations remarquables de la fonction principale qui vérifie une équation caractéristique homogène aux différences partielles. Paris, Comptes Rendus, XIII., 1841, pp. 40–46.

—— **161.** Mémoire sur la réduction de la fonction principale qui vérifie une équation caractéristique homogène. Paris, Comptes Rendus, XIII., 1841, pp. 97–109.

—— **162.** Méthode abrégée pour l'intégration des systèmes d'équations linéaires à coefficients constants. Paris, Comptes Rendus, XIII., 1841, pp. 109–124.

—— **163.** Note sur la transformation des sommes d'intégrales. Paris, Comptes Rendus, XIII., 1841, pp. 181–184.

—— **164.** Mémoire sur la surface caractéristique correspondante à un système d'équations linéaires aux dérivées partielles, et sur la surface des ondes. Paris, Comptes Rendus, XIII., 1841, pp. 184–188.

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—— **166.** Rapport sur un mémoire de M. Oltramare relatif au calcul des résidus. Paris, Comptes Rendus, XIII., 1841, pp. 296–298.

—— **167.** Méthode nouvelle pour le calcul des inégalités des mouvements planétaires, et en particulier des inégalités à longues périodes. Paris, Comptes Rendus, XIII., 1841, pp. 317–319.

—— **168.** Note sur la surface des ondes lumineuses dans les cristaux à deux axes optiques. Paris, Comptes Rendus, XIII., 1841, pp. 319–323.

—— **169.** Sur la réduction nouvelle de la fonction principale qui vérifie une équation caractéristique homogène, et sur les conséquences qu'entraîne cette réduction. Paris, Comptes Rendus, XIII., 1841, pp. 397–412, 455–467, 487–497.

—— **170.** Sur l'intégration des équations homogènes. Paris, Comptes Rendus, XIII., 1841, pp. 564–579.

—— **171.** Note sur une transcendante que renferme le développement de la fonction perturbatrice relative au système planétaire. Paris, Comptes Rendus, XIII., 1841, pp. 682–687.

Cauchy, *Augustin Louis.* **172.** Sur le développement du reste qui complète la série de Taylor en une série nouvelle. Paris, Comptes Rendus, XIII., 1841, pp. 842–849.

—— **173.** Note sur la substitution des anomalies excentriques aux anomalies moyennes dans le développement de la fonction perturbatrice. Paris, Comptes Rendus, XIII., 1841, pp. 850–854.

—— **174.** Note sur le développement des fonctions en séries. Paris, Comptes Rendus, XIII., 1841, pp. 909–914.

—— **175.** Note sur les fonctions alternées, et sur les sommes alternées. Paris, Comptes Rendus, XIII., 1841, pp. 939–941.

—— **176.** Note sur divers théorèmes relatifs à la rectification des courbes, et à la quadrature des surfaces. Paris, Comptes Rendus, XIII., 1841, pp. 1060–1065.

—— **177.** Note sur quelques théorèmes de calcul intégral. Paris, Comptes Rendus, XIII., 1841, pp. 1087–1095, 1130–1131.

—— **178.** Note sur la réduction de la fonction principale qui vérifie une équation caractéristique homogène. Paris, Comptes Rendus, XIII., 1841, pp. 1127–1130.

—— **179.** Sur diverses formules relatives à la théorie des intégrales définies, et sur la conversion des différences finies des puissances en intégrales de cette espèce. [1815.] Paris, École Polytechn. Journ. XVII., 1841, pp. 147–248 (28ᵉ *cah.*).

—— **180.** Note sur la réflexion de la lumière à la surface des métaux. Liouville, Journ. Math. VII., 1842, pp. 338–344.

—— **181.** Note sur diverses transformations de la fonction principale qui vérifie une équation caractéristique homogène. Paris, Comptes Rendus, XIV., 1842, pp. 1–13.

—— **182.** Rapport sur deux Mémoires de M. Blanchet, relatifs à la propagation du mouvement dans les milieux élastiques cristallisés, et en particulier à la délimitation des ondes ; avec Notes par le Rapporteur. Paris, Comptes Rendus, XIV., 1842, pp. 389–403.

—— **183.** Rapport sur une Note de M. Passot, relative à la détermination de la variable indépendante dans l'analyse des courbes. Paris, Comptes Rendus, XIV., 1842, pp. 508–511.

—— **184.** Note sur l'intégration des équations aux dérivées partielles du premier ordre. Paris, Comptes Rendus, XIV., 1842, pp. 740–748, 769–781, 881–895, 952–953, 1026–1028.

—— **185.** Mémoire sur un théorème fondamental dans le calcul intégral. Paris, Comptes Rendus, XIV., 1842, pp. 1020–1025.

—— **186.** Mémoire sur l'emploi du nouveau calcul des limites dans l'intégration d'un système d'équations différentielles. Paris, Comptes Rendus, XV., 1842, pp. 14–25.

Cauchy, *Augustin Louis.* **187.** Mémoire sur l'emploi du calcul des limites dans l'intégration des équations aux dérivées partielles. Paris, Comptes Rendus, XV., 1842, pp. 44–59, 85–101.

—— **188.** Mémoire sur les intégrales des systèmes d'équations différentielles ou aux dérivées partielles, et sur les développements de ces intégrales en séries ordonnées suivant les puissances ascendantes d'un paramètre que renferment les équations proposées. Paris, Comptes Rendus, XV., 1842, pp. 101–102, 141–146.

—— **189.** Mémoire sur les systèmes d'équations aux dérivées partielles d'ordres quelconques, et sur leur réduction à des systèmes d'équations linéaires du premier ordre. Paris, Comptes Rendus, XV., 1842, pp. 131–138.

—— **190.** Note sur divers théorèmes relatifs au calcul des limites. Paris, Comptes Rendus, XV., 1842, pp. 138–141.

—— **191.** Mémoire sur les variations des éléments du mouvement elliptique des planètes. Paris, Comptes Rendus, XV., 1842, pp. 186–188.

—— **192.** Mémoire sur le calcul des limites appliqué de diverses manières à l'intégration des systèmes d'équations différentielles. Paris, Comptes Rendus, XV., 1842, pp. 188–200.

—— **193.** Note sur une loi de réciprocité qui existe entre deux systèmes de valeurs de variables assujetties à vérifier des équations différentielles du premier ordre, et sur un théorème relatif à ces mêmes équations. Paris, Comptes Rendus, XV., 1842, pp. 200–201.

—— **194.** Théorie nouvelle des mouvements planétaires, ou application du calcul des résidus à l'Astronomie. Paris, Comptes Rendus, XV., 1842, pp. 255–269.

—— **195.** Sur le nouveau développement de la fonction perturbatrice, et sur diverses formules qui rendent plus facile l'application du calcul des résidus à l'Astronomie. Paris, Comptes Rendus, XV., 1842, pp. 301–303.

—— **196.** Détermination rigoureuse des termes séculaires dans le nouveau développement de la fonction perturbatrice. Paris, Comptes Rendus, XV., 1842, pp. 357–366.

—— **197.** Note sur une formule qui sert à développer, suivant les puissances entières d'un accroissement attribué au cosinus d'un arc, les accroissements correspondants que prennent les cosinus des multiples de cet arc. Paris, Comptes Rendus, XV., 1842, pp. 411–418.

—— **198.** Note sur le calcul des phénomènes que présente la lumière réfléchie ou réfractée par la surface d'un corps transparent ou opaque. Paris, Comptes Rendus, XV., 1842, pp. 418–425.

Cauchy, *Augustin Louis.* **199.** Décomposition de la fonction perturbatrice en produits de facteurs dont chacun se rapporte à une seule planète. Paris, Comptes Rendus, XV., 1842, pp. 478–483.

—— **200.** Méthode abrégée pour la recherche des lois suivant lesquelles la lumière se trouve réfléchie ou réfractée par la surface d'un corps transparent ou opaque. Paris, Comptes Rendus, XV., 1842, pp. 542–554.

—— **201.** Note sur la diffraction de la lumière. Paris, Comptes Rendus, XV., 1842, pp. 554–556, 573–578.

—— **202.** Mémoires sur les phénomènes des ombres et de la diffraction. Paris, Comptes Rendus, XV., 1842, pp. 605–614, 615–617, 670–678.

—— **203.** Mémoire sur les rayons diffractés qui peuvent être transmis ou réfléchis par la surface de séparation de deux milieux isophanes. Paris, Comptes Rendus, XV., 1842, pp. 712–716.

—— **204.** Mémoire sur de nouveaux phénomènes, indiqués par le calcul, qui paraissent devoir intéresser les physiciens, et en particulier sur la diffraction du son. Paris, Comptes Rendus, XV., 1842, pp. 759–770.

—— **205.** Note sur les principales différences qui existent entre les ondes lumineuses et les ondes sonores. Paris, Comptes Rendus, XV., 1842, pp. 813–816.

—— **206.** Mémoires sur l'application de l'analyse mathématique à la recherche des lois générales des phénomènes observés par les physiciens, et, en particulier, sur les lois de la polarisation circulaire. Paris, Comptes Rendus, XV., 1842, pp. 910–916.

—— **207.** Rapport sur une note de M. Passot relative aux forces centrales. Paris, Comptes Rendus, XV., 1842, pp. 917–919.

—— **208.** Mémoire sur les lois de la dispersion plane et de la dispersion circulaire dans les milieux isophanes. Paris, Comptes Rendus, XV., 1842, pp. 1076–1096.

—— **209.** Mémoire sur la polarisation rectiligne et la double réfraction. [1839.] Paris, Mém. Acad. Sci. XVIII., 1842, pp. 153–217.

—— **210.** Sur les dilatations, les condensations, et les rotations produites par un changement de forme dans un système de points matériels. Paris, Comptes Rendus, XVI., 1843, pp. 12–22.

—— **211.** Note sur les pressions supportées, dans un corps solide ou fluide, par deux portions de surface tres-voisines. Paris, Comptes Rendus, XVI., 1843, pp. 151–155.

—— **212.** Mémoire sur les pressions ou tensions intérieures mésurées dans un ou plusieurs systèmes de points matériels que sollicitent des forces d'attraction ou de répulsion mutuelle. Paris, Comptes Rendus, XVI., 1843, pp. 299–308, 954–967, 1035–1039.

Cauchy, *Augustin Louis.* **213.** Sur l'emploi des coordonnées curvilignes dans l'évaluation des surfaces, des volumes, des masses, etc. Paris, Comptes Rendus, XVI., 1843, pp. 413–422.

—— **214.** Mémoire sur la théorie des intégrales définies singulières, etc. Paris, Comptes Rendus, XVI., 1843, pp. 422–433.

—— **215.** Recherches sur les intégrales des équations linéaires aux dérivées partielles. Paris, Comptes Rendus, XVI., 1843, pp. 469–484.

—— **216.** Note relative à l'équilibre des températures dans un cylindre de forme quelconque. Paris, Comptes Rendus, XVI., 1843, pp. 517–524.

—— **217.** Remarques sur les intégrales des équations aux dérivées partielles, etc. Paris, Comptes Rendus, XVI., 1843, pp. 572–587.

—— **218.** Rapport sur un Mémoire de M. Amyot relatif aux surfaces du second ordre. Paris, Comptes Rendus, XVI., 1843, pp. 783–788.

—— **219.** Mémoire sur la synthèse algébrique. Paris, Comptes Rendus, XVI., 1843, pp. 867–881, 967–976, 1039–1052.

—— **220.** Sur les courbes qui renferment les foyers et les pôles correspondants d'une surface du second ordre. Paris, Comptes Rendus, XVI., 1843, pp. 885–886.

—— **221.** Sur un théorème d'analyse, et sur diverses conséquences de ce théorème. Paris, Comptes Rendus, XVI., 1843, pp. 886–890.

—— **222.** Sur l'expression des distances d'un point mobile à un centre fixe et à un plan fixe. Paris, Comptes Rendus, XVI., 1843, pp. 798–801.

—— **223.** Sur les plans tangents, les plans polaires, les plans diamétraux, et les centres des surfaces du second ordre. Paris, Comptes Rendus, XVI., 1843, pp. 801–805.

—— **224.** Sur diverses propriétés des lignes et des surfaces du premier et du second ordre. Paris, Comptes Rendus, XVI., 1843, pp. 805–809.

—— **225.** Sur les foyers et les pôles des lignes et surfaces du second ordre. Paris, Comptes Rendus, XVI., 1843, pp. 809–818.

—— **226.** Sur les courbes tracées dans le plan d'une section conique par des foyers et des pôles correspondants. Paris, Comptes Rendus, XVI., 1843, pp. 818–828.

—— **227.** Note sur le développement des fonctions en séries ordonnées suivant les puissances entières positives et négatives des variables. Paris, Comptes Rendus, XVII., 1843, pp. 193–198.

—— **228.** Mémoire sur l'analyse infinitésimale, et le calcul des variations. Paris, Comptes Rendus, XVII., 1843, pp. 275–280.

Cauchy, *Augustin Louis.* **229.** Sur un emploi légitime des séries divergentes. Paris, Comptes Rendus, XVII., 1843, pp. 370–376.

—— **230.** Recherches sur les intégrales Eulériennes. Paris, Comptes Rendus, XVII., 1843, pp. 376–377.

—— **231.** Sur la formation d'une classe très étendue d'équations réciproques, renfermant un nombre quelconque de variables. Paris, Comptes Rendus, XVI., 1843, pp. 1279–1280.

—— **232.** Note sur des théorèmes nouveaux et de nouvelles formules qui se déduisent de quelques équations symboliques. Paris, Comptes Rendus, XVII., 1843, pp. 377–379.

—— **233.** Mémoire sur l'emploi des équations symboliques dans le calcul infinitésimal et dans le calcul aux différences finies. Paris, Comptes Rendus, XVII., 1843, pp 449-458.

—— **234.** Mémoire sur les fonctions dont plusieurs valeurs sont liées entre elles par une équation linéaire, et sur diverses transformations de produits composés d'un nombre indéfini de facteurs. Paris, Comptes Rendus, XVII., 1843, pp. 523–531.

—— **235.** Second mémoire sur les fonctions dont plusieurs valeurs sont liées entre elles par une équation linéaire. Paris, Comptes Rendus, XVII., 1843, pp. 567–570.

—— **236.** Mémoire sur l'application du calcul des résidus au développement des produits composés d'un nombre infini de facteurs. Paris, Comptes Rendus, XVII., 1843, pp. 572–581.

—— **237.** Mémoire sur une certaine classe de fonctions transcendantes liées entre elles par un système de formules qui fournissent, comme cas particuliers, les développements des facteurs elliptiques en séries. Paris, Comptes Rendus, XVII., 1843, pp. 640–651.

—— **238.** Mémoire sur les factorielles géométriques. Paris, Comptes Rendus, XVII., 1843, pp. 692–703.

—— **239.** Mémoire sur les rapports entre les factorielles réciproques dont les bases varient proportionellement, et sur la transformation des logarithmes de ces rapports en intégrales définies. Paris, Comptes Rendus, XVII., 1843, pp. 779–787.

—— **240.** Sur la réduction des rapports de factorielles réciproques aux fonctions élliptiques. Paris, Comptes Rendus, XVII., 1843, pp. 825–837.

—— **241.** Mémoire sur les fractions rationelles que l'on peut extraire d'une fonction transcendante, et spécialement du rapport entre deux produits de factorielles réciproques. Paris, Comptes Rendus, XVII., 1843, pp. 921–925.

Cauchy, *Augustin Louis.* **242.** Note sur le développement des fonctions en séries convergentes ordonnées suivant les puissances entières des variables. Paris, Comptes Rendus, XVII., 1843, pp. 940–942.

—— **243.** Mémoire sur l'application du calcul des limites à l'Astronomie. Paris, Comptes Rendus, XVII., 1843, pp. 1157–1159.

—— **244.** Mémoire sur les formules qui servent à décomposer en fractions rationelles le rapport entre deux produits de factorielles réciproques. Paris, Comptes Rendus, XVII., 1843, pp. 1159–1164.

—— **245.** Mémoire sur la théorie analytique des maxima maximorum et des minima minimorum. Paris, Comptes Rendus, XVII., 1843, pp. 1215–1220.

—— **246.** Mémoire sur les modules des séries. Paris, Comptes Rendus, XVII., 1843, pp. 1220–1222.

—— **247.** Sur les fonctions continues. Paris, Comptes Rendus, XVIII., 1844, pp. 116–129.

—— **248.** Mémoire sur les valeurs moyennes des fonctions. Paris, Comptes Rendus, XVIII., 1844, pp. 558–564.

—— **249.** Nouveau mémoire sur le calcul des inégalités des mouvements planétaires. Paris, Comptes Rendus, XVIII., 1844, pp. 625–630.

—— **250.** Sur l'équilibre et le mouvement d'un système de molécules dont les dimensions ne sont pas supposées nulles. Paris, Comptes Rendus, XVIII., 1844, pp. 774–782.

—— **251.** Addition au mémoire sur la Synthèse algébrique. Paris, Comptes Rendus, XVIII., 1844, pp. 803–809.

—— **252.** Rémarques à l'occasion d'un Mémoire par M. Laurent sur la rotation des plans de polarisation dans les mouvements infiniment petits d'un système de sphéroïdes. Paris, Comptes Rendus, XVIII., 1844, pp. 940–942.

—— **253.** Mémoire sur la théorie de la polarisation chromatique. Paris, Comptes Rendus, XVIII., 1844, pp. 961–972.

—— **254.** Mémoire sur la substitution des fonctions non périodiques aux fonctions périodiques dans les intégrales définies. Paris, Comptes Rendus, XVIII., 1844, pp. 1072–1186.

—— **255.** Sur la méthode logarithmique appliquée au développement des fonctions en séries. Paris, Comptes Rendus, XIX., 1844, pp. 51–67.

—— **256.** Note sur les intégrales Eulériennes. Paris, Comptes Rendus, XIX., 1844, pp. 67–73.

—— **257.** Sur divers théorèmes relatifs à la convergence des séries. Paris, Comptes Rendus, XIX., 1844, pp. 141–144, 157.

—— **258.** Note sur l'application de la méthode logarithmique à la détermination des inégalités périodiques des mouvements planétaires. Paris, Comptes Rendus, XIX., 1844, pp. 159–162

Cauchy, *Augustin Louis.* **259.** Note sur diverses propriétés remarquables du développement d'une fonction en série ordonnée suivant les puissances entières d'une même variable. Paris, Comptes Rendus, XIX., 1844, pp. 205–209.

—— **260.** Mémoire sur l'application de la méthode logarithmique à la détermination des inégalités périodiques que présentent les mouvements des corps célestes. Paris, Comptes Rendus, XIX., 1844, pp. 279–294.

—— **261.** Note sur l'application de la méthode logarithmique au développement des fonctions en séries, et sur les avantages que présente, dans cette application, la détermination numérique des coëfficients effectuée à l'aide d'approximations successives. Paris, Comptes Rendus, XIX., 1844, pp. 699–701.

—— **262.** Sur les développements de la fonction perturbatrice en séries ordonnées suivant les puissances entières des exponentielles trigonométriques, etc. Paris, Comptes Rendus, XIX., 1844, pp. 782–786.

—— **263.** Sur les propriétés de certaines factorielles, et sur la décomposition des fonctions en facteurs. Paris, Comptes Rendus, XIX., 1844, pp. 1069–1073.

—— **264.** Sur un nouveau genre de développement des fonctions qui permettra d'abréger notablement les calculs astronomiques. Paris, Comptes Rendus, XIX., 1844, pp. 1122–1126.

—— **265.** Sur quelques formules relatives aux différences finies. Paris, Comptes Rendus, XIX., 1844, pp. 1179–1183.

—— **266.** Mémoire sur plusieurs nouvelles formules qui sont relatives au développement des fonctions en séries. Paris, Comptes Rendus, XIX., 1844, pp. 1194–1205.

—— **267.** Sur l'application de nouvelles formules à l'Astronomie. Paris, Comptes Rendus, XIX., 1844, pp. 1228–1239.

—— **268.** Mémoire sur une extension remarquable que l'on peut donner aux nouvelles formules établies dans les Séances précédentes. Paris, Comptes Rendus, XIX., 1844, pp. 1331–1334.

—— **269.** Sur quelques propositions fondamentales du calcul des résidus, et sur la théorie des intégrales singulières. Paris, Comptes Rendus, XIX., 1844, pp. 1337–1344.

—— **270.** Sur les séries multiples et sur les séries modulaires. Paris, Comptes Rendus, XIX., 1844, pp. 1375–1377.

—— **271.** Sur les fonctions complémentaires. Paris, Comptes Rendus, XIX., 1844, pp. 1377–1381.

—— **272.** Sur la convergence des séries multiples. Paris, Comptes Rendus, XIX., 1844, pp. 1433–1436.

Cauchy, *Augustin Louis.* **273.** Sur les fonctions qui se reproduisent par substitution. Paris, Comptes Rendus, XIX., 1844, pp. 1436–1439.

—— **274.** Sur les progressions des divers ordres. Paris, Comptes Rendus, XX., 1845, pp. 2–19.

—— **275.** Note sur diverses conséquences du théorème relatif aux valeurs moyennes des fonctions. Paris, Comptes Rendus, XX., 1845, pp. 119–126.

—— **276.** Sur la convergence de la série partielle qui a pour termes les divers coefficients d'une même puissance d'une seule variable dans une série multiple. Paris, Comptes Rendus, XX., 1845, pp. 126–138.

—— **277.** Mémoire sur diverses conséquences remarquables des principes établis dans les Séances précédentes. Paris, Comptes Rendus, XX., 1845, pp. 212–228.

—— **278.** Sur l'emploi des variables complémentaires dans le développement des fonctions en séries. Paris, Comptes Rendus, XX., 1845, pp. 280–293.

—— **279.** Sur des formules rigoureuses et dignes de remarque, auxquelles on se trouve conduit par la considération de séries multiples et divergentes. Paris, Comptes Rendus, XX., 1845, pp. 329–340.

—— **280.** Mémoire sur diverses propriétés remarquables et très générales des fonctions continues. Paris, Comptes Rendus, XX., 1845, pp. 375–395.

—— **281.** Mémoire sur les séries syntagmatiques, et sur celles qu'on obtient quand on développe des fonctions d'une seule variable suivant les puissances entières de son argument. Paris, Comptes Rendus, XX., 1845, pp. 463–480.

—— **282.** Sur les approximations des fonctions de très grands nombres. Paris, Comptes Rendus, XX., 1845, pp. 481–482, 552–554, 691–726.

—— **283.** Sur les modules principaux des fonctions. Paris, Comptes Rendus, XX., 1845, pp. 546–552.

—— **284.** Sur les variations du moyen mouvement. Paris, Comptes Rendus, XX., 1845, pp. 769–774.

—— **285.** Sur la distance mutuelle de deux planètes. Paris, Comptes Rendus, XX., 1845, pp. 774–781.

—— **286.** Suite des Notes relatives à la détermination des inégalités périodiques des mouvements planétaires. Paris, Comptes Rendus, XX., 1845, pp. 825–847.

—— **287.** Sur la détermination approximative des fonctions représentées par des intégrales. Paris, Comptes Rendus, XX., 1845, pp. 907–927.

Cauchy, *Augustin Louis.* **288.** Sur l'application des nouvelles formules à l'Astronomie. Paris, Comptes Rendus, XX., 1845, pp. 996–999.

—— **289.** Sur les séries nouvelles que l'on obtient, quand on applique les méthodes exposées dans les précédentes Séances, au développement de la fonction perturbatrice et à la détermination des inégalités périodiques des mouvements planétaires. Paris, Comptes Rendus, XX., 1845, pp. 1166–1179.

—— **290.** Sur des formules et des théorèmes remarquables qui permettent de calculer très facilement les perturbations planétaires dont l'ordre est très élevée. Paris, Comptes Rendus, XX., 1845, pp. 1612–1626.

—— **291.** Notes relatives à la Mécanique rationelle. Paris, Comptes Rendus, XX., 1845, pp. 1759–1766.

—— **292.** Observations sur la pression que supporte un élément de surface plane dans un corps solide ou fluide. Paris, Comptes Rendus, XXI., 1845, pp. 125–133.

—— **293.** Mémoire sur les secours que les sciences de calcul peuvent fournir aux sciences physiques ou même aux sciences morales, et sur l'accord des théories mathématiques et physiques avec la véritable philosophie. Paris, Comptes Rendus, XXI., 1845, pp. 134–143 ; Froriep, Notizen, XXV., 1845, col. 84–85.

—— **294.** Sur divers théorèmes de géométrie analytique. Paris, Comptes Rendus, XXI., 1845, pp. 305–316.

—— **295.** Sur divers théorèmes d'analyse algébrique et de calcul intégral. Paris, Comptes Rendus, XXI., 1845, pp. 407–415.

—— **296.** Sur le nombre des valeurs égales ou inégales que peut acquérir une fonction de n variables indépendantes, quand on permute ces variables entre elles d'une manière quelconque. Paris, Comptes Rendus, XXI., 1845, pp. 593–607, 668–679, 727–742, 779–783.

—— **297.** Mémoire sur diverses propriétés remarquables des substitutions régulières ou irrégulières, et des systèmes de substitutions conjuguées. Paris, Comptes Rendus, XXI., 1845, pp. 835–852, 895–902, 931–933, 972–987, 1025–1041.

—— **298.** Mémoire sur les prémiers termes de la série des quantités qui sont propres à représenter le nombre des valeurs distinctes à une fonction des n variables indépendantes. Paris, Comptes Rendus, XXI., 1845, pp. 1093–1101.

—— **299.** Sur la résolution des équations linéaires symboliques, et sur les conséquences remarquables que cette résolution entraîne après elle dans la théorie des permutations. Paris, Comptes Rendus, XXI., 1845, pp. 1123–1134.

Cauchy, *Augustin Louis.* **300.** Mémoire sur les substitutions permutables entre elles. Paris, Comptes Rendus, XXI., 1845, pp. 1188–1199.

—— **301.** Note sur la réduction des fonctions transitives aux fonctions intransitives, etc. Paris, Comptes Rendus, XXI., 1845, pp. 1199–1201.

—— **302.** Note sur les substitutions qui n'altèrent pas la valeur d'une fonction. Paris, Comptes Rendus, XXI., 1845, pp. 1234–1238.

—— **303.** Sur diverses propriétés des systèmes de substitutions et particulièrement de ceux qui sont permutables entre eux. Paris, Comptes Rendus, XXI., 1845, pp. 1238–1254.

—— **304.** Note sur les fonctions caractéristiques des substitutions. Paris, Comptes Rendus, XXI., 1845, pp. 1254–1255.

—— **305.** Sur le nombre et la forme des substitutions qui n'altèrent pas la valeur d'une fonction de plusieurs variables indépendantes. Paris, Comptes Rendus, XXI., 1845, pp. 1287–1300.

—— **306.** Applications diverses des principes établis dans les précédents mémoires. Paris, Comptes Rendus, XXI., 1845, pp. 1356–1369.

—— **307.** Sur les fonctions de cinq ou six variables, et spécialement sur celles qui sont doublement transitives. Paris, Comptes Rendus, XXI., 1845, pp. 1401–1409 ; XXII., 1846, pp. 1–31.

—— **308.** Ueber die Auflösung der Gleichung $ax + by + cz = 0$, wo a, b, c ganze Zahlen bezeichnen in ganzen Zahlen. Grunert, Archiv, VII., 1846, pp. 305–308.

—— **309.** Note sur le développement des fonctions en séries ordonnées suivant les puissances ascendantes des variables. Liouville, Journ. Math. XI., 1846, pp. 313–330.

—— **310.** Sur un nouveau calcul qui permet de simplifier et d'étendre la théorie des Permutations. Paris, Comptes Rendus, XXII., 1846, pp. 53–63.

—— **311.** Applications diverses du nouveau calcul dont les principes ont été établis dans la Séance précédente. Paris, Comptes Rendus, XXII., 1846, pp. 99–107.

—— **312.** Recherches sur un système d'équations simultanées, dont les unes se déduisent des autres à l'aide d'une ou de plusieurs substitutions. Paris, Comptes Rendus, XXII., 1846, pp. 159–160, 193–196.

—— **313.** Sur la résolution des équations symboliques non linéaires. Paris, Comptes Rendus, XXII., 1846, pp. 235–238.

—— **314.** Note sur un théorème fondamental relatif à deux systèmes de substitutions conjuguées. Paris, Comptes Rendus, XXII., 1846, 630–632.

—— **315.** Sur les intégrales qui s'étendent à tous les points d'une courbe fermée. Paris, Comptes Rendus, XXIII., 1846, pp. 251–255.

Cauchy, *Augustin Louis.* **316.** Sur les fonctions de variables imaginaires. Paris, Comptes Rendus, XXIII., 1846, pp. 271–275.

—— **317.** Sur l'application du calcul des résidus à la recherche des propriétés générales des intégrales dont les dérivées renferment des racines d'équations algébriques. Paris, Comptes Rendus, XXIII., 1846, pp. 321–333.

—— **318.** Mémoire sur le changement de variables dans les transcendantes représentées par des intégrales définies. Paris, Comptes Rendus, XXIII., 1846, pp. 382–394.

—— **319.** Sur la détermination complète des variables propres à vérifier un système d'équations différentielles. Paris, Comptes Rendus, XXIII., 1846, pp. 485–487, 529–537.

—— **320.** Sur les caractères à l'aide desquels on peut distinguer, entre les diverses racines d'une équation algébrique ou transcendante, celle qui se développe en série convergente par le théorème de Lagrange. Paris, Comptes Rendus, XXIII., 1846, pp. 493–501.

—— **321.** Mémoire sur les intégrales dans lesquelles la fonction sous le signe $\int$ change brusquement de valeur. Paris, Comptes Rendus, XXIII., 1846, p. 537.

—— **322.** Mémoire sur les intégrales imaginaires des équations différentielles, et sur les grands avantages que l'on peut retirer de la considération des ces intégrales, soit pour établir des formules nouvelles, soit pour éclaircir des difficultés qui n'avaient pas été jusqu' ici complètement résolues. Paris, Comptes Rendus, XXIII., 1846, pp. 563–569.

—— **323.** Note sur l'intégration d'un système d'équations différentielles, et sur l'inversion de leurs intégrales. Paris, Comptes Rendus, XXIII., 1846, pp. 617–619.

—— **324.** Considérations nouvelles sur les intégrales définies qui s'étendent à tous les points d'une courbe fermée, et sur celles qui sont prises entre des limites imaginaires. Paris, Comptes Rendus, XXIII., 1846, pp. 689–702.

—— **325.** Mémoire sur la continuité des fonctions qui représentent les intégrales réelles ou imaginaires d'un système d'équations différentielles. Paris, Comptes Rendus, XXIII., 1846, pp. 702–704.

—— **326.** Sur les diverses espèces d'intégrales d'un système d'équations différentielles. Paris, Comptes Rendus, XXIII., 1846, pp. 729–740.

—— **327.** Sur les rapports et les différences qui existent entre les intégrales rectilignes d'un système d'équations différentielles et les intégrales complètes de ces mêmes équations. Paris, Comptes Rendus, XXIII., 1846, pp. 779–787.

Cauchy, *Augustin Louis.* **328.** Méthodes nouvelles pour la détermination des orbites des corps célestes, et en particulier des comètes. Paris, Comptes Rendus, XXIII., 1846, pp. 887–892.

—— **329.** Sur l'application de la nouvelle formule d'interpolation à la détermination des orbites que décrivent les corps célestes. Paris, Comptes Rendus, XXIII., 1846, pp. 956–959.

—— **330.** Notes sur les formules relatives à la détermination des orbites que décrivent les corps célestes. Paris, Comptes Rendus, XXIII., 1846, pp. 1002–1014.

—— **331.** Note sur quelques propriétés des facteurs complexes. Paris, Comptes Rendus, XXIV., 1847, pp. 347–348.

—— **332.** Mémoire sur les mouvements des systèmes de molécules. Paris, Comptes Rendus, XXIV., 1847, pp. 348–352.

—— **333.** Mémoire sur les racines des équations algébriques à coefficients entiers, et sur les polynômes radicaux. Paris, Comptes Rendus, XXIV., 1847, pp. 407–414.

—— **334.** Sur de nouvelles formules relatives à la théorie des polynômes radicaux, et sur le dernier théorème de Fermat. Paris, Comptes Rendus, XXIV., 1847, pp. 469–481, 516–528, 578–584, 633–636, 661–666.

—— **335.** Mémoire sur le degré d'exactitude avec lequel on peut déterminer les orbites des planètes et des comètes. Paris, Comptes Rendus, XXV., 1847, pp. 572–579.

—— **336.** Mémoire sur les maxima et minima conditionnels. Paris, Comptes Rendus, XXIV., 1847, pp. 757–763.

—— **337.** Sur les lieux analytiques. Paris, Comptes Rendus, XXIV., 1847, pp. 885–887.

—— **338.** Sur diverses propositions relatives à la théorie des nombres. Paris, Comptes Rendus, XXIV., 1847, pp. 996–999; XXV., 1847, pp. 177–182, 242–243.

—— **339.** Sur la décomposition d'un nombre entier en facteurs radicaux. Paris, Comptes Rendus, XXIV., 1847, pp. 1022–1030.

—— **340.** Sur les facteurs modulaires des fonctions entières d'une ou de plusieurs variables. Paris, Comptes Rendus, XXIV., 1847, pp. 1116–1120.

—— **341.** Mémoire sur une nouvelle théorie des imaginaires, et sur les racines symboliques des équations et des équivalences. Paris, Comptes Rendus, XXIV., 1847, pp. 1120–1130.

—— **342.** Mémoire sur les racines des équivalences correspondantes à des modules quelconques premiers ou non premiers, et sur les avantages que présente l'emploi de ces racines dans la théorie des nombres. Paris, Comptes Rendus, XXV., 1847, pp. 37–46.

Cauchy, *Augustin Louis.* **343.** Mémoire sur la disposition des nombres entiers en facteurs radicaux. Paris, Comptes Rendus, XXV., 1847, pp. 46–54.

—— **344.** Mémoire sur les indices modulaires des polynômes radicaux que fournissent les puissances et produits des racines de la résolvante d'une équation binôme. Paris, Comptes Rendus, XXV., 1847, pp. 93–99.

—— **345.** Mémoire sur l'application de la nouvelle théorie des imaginaires aux diverses branches des sciences mathématiques. Paris, Comptes Rendus, XXV., 1847, pp. 129–132.

—— **346.** Sur diverses propositions relatives à la théorie des nombres. Paris, Comptes Rendus, XXV., 1847, pp. 132–136, 177–182, 242–243.

—— **347.** Sur l'emploi des racines de l'unité pour la résolution des divers systèmes d'équations linéaires. Paris, Comptes Rendus, XXV., 1847, pp. 285–288.

—— **348.** Note sur la polarisation chromatique. Paris, Comptes Rendus, XXV., 1847, pp. 331–333.

—— **349.** Sur la détermination des orbites des planètes et des comètes. Paris, Comptes Rendus, XXV., 1847, pp. 401–413, 475–478.

—— **350.** Note sur l'application des formules établies dans les précédentes Séances. Paris, Comptes Rendus, XXV., 1847, pp. 531–536.

—— **351.** Méthode générale pour la résolution des systèmes d'équations simultanées. Paris, Comptes Rendus, XXV., 1847, pp. 536–538.

—— **352.** Sur le degré d'exactitude avec lequel on peut déterminer les orbites des planètes et des comètes. Paris, Comptes Rendus, XXV., 1847, pp. 572–579.

—— **353.** Application des formules que fournit la nouvelle méthode d'interpolation à la résolution d'un système d'équations linéaires approximatives, et, en particulier, à la correction des éléments de l'orbite d'un astre. Paris, Comptes Rendus, XXV., 1847, pp. 650–656.

—— **354.** Mémoire sur la détermination et la correction des éléments de l'orbite d'un astre. Paris, Comptes Rendus, XXV., 1847, pp. 700–705.

—— **355.** Mémoire sur la détermination de l'orbite d'une planète à l'aide des formules qui ne renferment que les dérivées du premier ordre des longitude et latitude géocentriques. Paris, Comptes Rendus, XXV., 1847, pp. 775–781, 879–883.

—— **356.** Sur deux formules générales, dont chacune permet de calculer rapidement des valeurs très approchées des élémens de l'orbite d'une planète ou d'une comète. Paris, Comptes Rendus, XXV., 1847, pp. 953–959.

Cauchy, *Augustin Louis.* **357.** Note sur l'abaissement que l'on peut faire subir au degré de l'équation donnée par LAGRANGE dans la "Connaissance des Temps" pour l'année 1821. Paris, Comptes Rendus, XXVI., 1848, pp. 27–28.

—— **358.** Mémoire sur quelques propriétés remarquables des fonctions interpolaires, et sur le parti qu'on en peut tirer pour une détermination sûre et facile des éléments de l'orbite d'un planète ou d'une comète. Paris, Comptes Rendus, XXVI., 1848, pp. 29–33.

—— **359.** Formules pour la détermination des orbites des planètes et des comètes. Paris, Comptes Rendus, XXVI., 1848, pp. 57–61, 133–136, 157–162, 236–240.

—— **360.** Note sur la lumière réfléchie par la surface d'un corps opaque. Paris, Comptes Rendus, XXVI., 1848, pp. 86–88; Poggend. Annal. LXXIV., 1849, pp. 543–545.

—— **361.** Note sur le recensement des votes dans les élections générales. Paris, Comptes Rendus, XXVI., 1848, pp. 469–472.

—— **362.** Sur quelques théorèmes de géométrie analytique relatifs aux polygones et aux polyèdres réguliers. Paris, Comptes Rendus, XXVI., 1848, pp. 489–494.

—— **363.** Note sur quelques propriétés remarquables des polyèdres réguliers. Paris, Comptes Rendus, XXVI., 1848, pp. 517–522.

—— **364.** Mémoire sur les valeurs moyennes des fonctions et sur les fonctions isotropes. Paris, Comptes Rendus, XXVI., 1848, pp. 549–550, 624–627, 666–673; XXVII., 1848, pp. 6–12.

—— **365.** Théorèmes divers sur les fonctions différentielles et sur les valeurs moyennes des fonctions. Paris, Comptes Rendus, XXVII., 1848, pp. 37–42.

—— **366.** Mémoire sur le mouvement d'un système de molécules. Paris, Comptes Rendus, XXVII., 1848, pp. 93–99.

—— **367.** Mémoire sur les trois espèces de rayons lumineux qui correspondent aux mouvements simples du fluide éthéré. Paris, Comptes Rendus, XXVII., 1848, pp. 621–622.

—— **368.** Sur les polyèdres étoilés. Nouv. Ann. Math. VIII., 1849, pp. 304–312.

—— **369.** Mécanique moléculaire. Paris, Comptes Rendus, XXVIII., 1849, pp. 2–6.

—— **370.** Note sur les rayons lumineux simples et sur les rayons évanescents. Paris, Comptes Rendus, XXVIII., 1849, pp. 25–28; Paris, Mém. Acad. Sci. XXII., 1850, pp. 29–38.

—— **371.** Mémoire sur la réflexion et la réfraction de la lumière, et sur de nouveaux rayons réfléchis et réfractés. Paris, Comptes Rendus, XXVIII., 1849, pp. 57–66.

Cauchy, *Augustin Louis.* **372.** Mémoire sur les fonctions discontinues. Paris, Comptes Rendus, XXVIII., 1849, pp. 277–282.

—— **373.** Mémoire sur les rayons réfléchis et réfractés par des lames minces, et sur les anneaux colorés. Paris, Comptes Rendus, XXVIII., 1849, pp. 333–340.

—— **374.** Recherches nouvelles sur les séries et sur les approximations des fonctions de très grands nombres. Paris, Comptes Rendus, XXIX., 1849, pp. 42–48.

—— **375.** Mémoire sur l'intégration d'un système quelconque d'équations différentielles et en particulier de celles qui représentent les mouvements planétaires. Paris, Comptes Rendus, XXIX., 1849, pp. 65–67.

—— **376.** Suite des recherches sur l'intégration d'un système d'équations différentielles, et transformation remarquable de l'intégrale générale de l'équation caractéristique. Paris, Comptes Rendus, XXIX., 1849, pp. 103–106.

—— **377.** Rapport concernant un Mémoire de M. JAMIN sur la réflexion de la lumière à la surface des corps transparents. Paris, Comptes Rendus, XXIX., 1849, pp. 121–126.

—— **378.** Sur les quantités géométriques et sur une méthode nouvelle pour la résolution des équations algébriques de degré quelconque. Paris, Comptes Rendus, XXIX., 1849, pp. 250–257.

—— **379.** Sur les valeurs moyennes des fonctions de trois variables indépendantes. Paris, Comptes Rendus, XXIX., 1849, pp. 341–349.

—— **380.** Mémoire sur les intégrales continues et les intégrales discontinues des équations différentielles ou aux dérivées partielles. Paris, Comptes Rendus, XXIX., 1849, pp. 548–557.

—— **381.** Applications des principes établis dans la Séance précédente à la recherche des intégrales qui représentent les mouvements infiniment petits des corps homogènes et spécialement les mouvements par ondes planes. Paris, Comptes Rendus, XXIX., 1849, pp. 606–615.

—— **382.** Mémoire sur les systèmes d'équations linéaires différentielles ou aux dérivées partielles, à coefficients périodiques, et sur les intégrales élémentaires de ces mêmes équations. Paris, Comptes Rendus, XXIX., 1849, pp. 641–643; Paris, Mém. Acad. Sci. XXII., 1850, pp. 587–597.

—— **383.** Mémoire sur les vibrations infiniment petites des systèmes de points matériels. Paris, Comptes Rendus, XXIX., 1849, pp. 643–644.

—— **384.** Démonstration simple de cette proposition que, dans un rayon de lumière polarisé rectilignement, les vibrations des molécules sont perpendiculaires au plan de polarisation. Paris, Comptes Rendus, XXIX., 1849, p. 645.

Cauchy, *Augustin Louis.* **385.** Sur les vibrations d'un double système de molécules et de l'éther contenu dans un corps cristallisé. Paris, Comptes Rendus, XXIX., 1849, pp. 728–729 ; Paris, Mém. Acad. Sci. XXII., 1850, pp. 599–614.

—— **386.** Sur les systèmes isotropes de points matériels. Paris, Comptes Rendus, XXIX., 1849, pp. 761–762. Paris, Mém. Acad. Sci. XXII., 1850, pp. 615–654.

—— **387.** Sur les perturbations produites dans les mouvements vibratoires d'un système de molécules par l'influence d'un autre système. Paris, Comptes Rendus, XXX., 1850, pp. 17–24.

—— **388.** Mémoire sur la propagation de la lumière dans les milieux isophanes. Paris, Comptes Rendus, XXX., 1850, pp. 33–41.

—— **389.** Mémoire sur les vibrations de l'éther dans les milieux qui sont isophanes par rapport à une direction donnée. Paris, Comptes Rendus, XXX., 1850, pp. 93–97.

—— **390.** Note sur la différence de marche entre les deux rayons lumineux qui émergent d'une plaque doublement réfringente à faces parallèles. Paris, Comptes Rendus, XXX., 1850, pp. 97–99.

—— **391.** Mémoire sur la décomposition des fonctions en facteurs. Paris, Comptes Rendus, XXX., 1850, pp. 186–190.

—— **392.** Note sur l'intensité de la lumière dans les rayons réfléchis par la surface d'un corps transparent ou opaque. Paris, Comptes Rendus, XXX., 1850, pp. 465–467.

—— **393.** Rapport sur une Note relative aux anneaux colorés de Newton. Paris, Comptes Rendus, XXX., 1850, pp. 498–499.

—— **394.** Sur les rayons de lumière réfléchis et réfractés par la surface d'un corps transparent. Paris, Comptes Rendus, XXXI., 1850, pp. 160–166, 225–232.

—— **395.** Mémoire sur la réflexion et la réfraction des rayons lumineux à la surface extérieure ou intérieure d'un cristal. Paris, Comptes Rendus, XXXI., 1850, pp. 257–262.

—— **396.** Détermination des trois coefficients qui, dans la réflexion et la réfraction opérées par la surface extérieure d'un cristal dépendent des rayons évanescents. Paris, Comptes Rendus, XXXI., 1850, pp. 297–306.

—— **397.** Mémoire sur les équations différentielles du mouvement de l'éther dans les cristaux à un et à deux axes optiques. Paris, Comptes Rendus, XXXI., 1850, pp. 338–342.

—— **398.** Mémoire sur un nouveau phénomène de réflexion. Paris, Comptes Rendus, XXXI., 1850, pp. 532–533.

Cauchy, *Augustin Louis.* **399.** Note relative aux rayons réfléchis sous l'incidence principale, par la surface extérieure d'un cristal à une axe optique. Paris, Comptes Rendus, XXXI., 1850, pp. 666–667.

—— **400.** Noté sur la réflexion d'un rayon de lumière polarisée, à la surface extérieure d'un corps transparent. Paris, Comptes Rendus, XXXI., 1850, p. 766.

—— **401.** Note sur les vibrations transversales de l'éther et sur la dispersion des couleurs. Paris, Comptes Rendus, XXXI., 1850, pp. 842–843.

—— **402.** Mémoire sur la rectification des courbes et la quadrature des surfaces courbes. [1832.] Paris, Mém. Acad. Sci. XXII., 1850, pp. 3–15.

—— **403.** Mémoire sur les conditions relatives aux limites des corps, et en particulier sur celles qui conduisent aux lois de la réflexion et de la réfraction de la lumière. [1848.] Paris, Mém. Acad. Sci. XXII., 1850, pp. 17–28.

—— **404.** Mémoire sur le calcul intégral. [1824.] Paris, Mém. Acad. Sci. XXII., 1850, pp. 39–180.

—— **405.** Sur les fonctions irrationelles. Paris, Comptes Rendus, XXXII., 1851, pp. 68–75, 162–164.

—— **406.** Sur les fonctions de variables imaginaires. Paris, Comptes Rendus, XXXII., 1851, pp. 160–162.

—— **407.** Sur l'application du calcul des résidus à plusieurs questions importantes d'analyse. Paris, Comptes Rendus, XXXII., 1851, pp. 207–215.

—— **408.** Mémoire sur l'application du calcul des résidus à la décomposition des fonctions transcendantes. Paris, Comptes Rendus, XXXII., 1851, pp. 267–276, 354–357.

—— **409.** Rapport sur le Mémoire de M. Puiseux, intitulé : "Recherches sur les fonctions algébriques." Paris, Comptes Rendus, XXXII., 1851, pp. 276–284.

—— **410.** Note sur l'équilibre et les mouvements vibratoires des corps solides. Paris, Comptes Rendus, XXXII., 1851, pp. 323–326.

—— **411.** Rapport sur divers mémoires de M. Wertheim qui ont pour objet l'équilibre des corps solides, etc. Paris, Comptes Rendus, XXXII., 1851, pp. 326–330.

—— **412.** Mémoire sur la sommation des termes de rang très-élevé dans une série simple ou multiple. Paris, Comptes Rendus, XXXII., 1851, pp. 389–397.

—— **413.** Rapport sur un mémoire de M. Hermite relatif aux fonctions à double période. Paris, Comptes Rendus, XXXII., 1851, pp. 442–454.

Cauchy, *Augustin Louis.* **414.** Sur les fonctions monotypiques et monogènes. Paris, Comptes Rendus, XXXII., 1851, pp. 484–487.

—— **415.** Méthode d'interpolation. Connaiss. des Temps, 1852, pp. 129–142.

—— **416.** Sur le développement des fonctions en séries limitées. Paris, Comptes Rendus, XXXIV., 1852, pp. 8–9.

—— **417.** Sur le développement des quantités en séries limitées. Paris, Comptes Rendus, XXXIV., 1852, pp. 70–77, 121–124.

—— **418.** Sur les restes qui complètent les séries limitées. Paris, Comptes Rendus, XXXIV., 1852, pp. 156–159.

—— **419.** Sur le changement de variable indépendante dans les moyennes isotropiques. Paris, Comptes Rendus, XXXIV., 1852, pp. 159–162.

—— **420.** Mémoire sur l'application du calcul infinitésimal à la détermination des fonctions implicites. Paris, Comptes Rendus, XXXIV., 1852, pp. 265–273.

—— **421.** Sur la série de Lagrange. Paris, Comptes Rendus, XXXIV., 1852, pp. 309–319.

—— **422.** Notes annexées au Rapport sur de nouvelles recherches relatives à la série de Lagrange, et présentées à l'Académie par M. F. Chio. Paris, Comptes Rendus, XXXIV., 1852, pp. 316–319, 345–349.

—— **423.** Sur les clefs algébriques. Paris, Comptes Rendus, XXXVI., 1853, pp. 70–75, 129–132.

—— **424.** Sur la théorie des moments linéaires et sur les moments linéaires des divers ordres. Paris, Comptes Rendus, XXXVI., 1853, pp. 75–81.

—— **425.** Sur les avantages que présente, dans un grand nombre de questions, l'emploi des clefs algébriques. Paris, Comptes Rendus, XXXVI., 1853, pp. 161–169.

—— **426.** Note sur les séries convergentes. Paris, Comptes Rendus, XXXVI., 1853, pp. 454–459.

—— **427.** Mémoire sur l'évaluation d'inconnues déterminées par un grand nombre d'équations approximatives du premier degré. Paris, Comptes Rendus, XXXVI., 1853, pp. 1114–1122.

—— **428.** Mémoire sur les différentielles et les variations employées comme clefs algébriques. Paris, Comptes Rendus, XXXVII., 1853, pp. 38–45, 57–64.

—— **429.** Sur l'interpolation. Paris, Comptes Rendus, XXXVII., 1853, pp. 64–68.

—— **430.** Sur la nouvelle méthode d'interpolation comparée à la méthode des moindres carrées. Paris, Comptes Rendus, XXXVII., 1853, pp. 100–109.

Cauchy, *Augustin Louis.* **431.** Sur les coefficients limitateurs ou restricteurs. Paris, Comptes Rendus, XXXVII., 1853, pp. 150–162.

—— **432.** Sur les résultats moyens d'observations de même nature. Paris, Comptes Rendus, XXXVII., 1853, pp. 198–206.

—— **433.** Sur la probabilité des erreurs qui affectent des résultats moyens d'observations de même nature. Paris, Comptes Rendus, XXXVII., 1853, pp. 264–272.

—— **434.** Sur la plus grande erreur à craindre dans un résultat moyen, et sur le système de facteurs qui rende cette plus grande erreur un minimum. Paris, Comptes Rendus, XXXVII., 1853, pp. 326–334.

—— **435.** Sur les résultats moyens d'un très grand nombre d'observations. Paris, Comptes Rendus, XXXVII., 1853, pp. 381–385.

—— **436.** Sur les rayons vecteurs associés, et sur les avantages que présente l'emploi de ces rayons vecteurs dans la physique mathématique. Paris, Comptes Rendus, XXXVIII., 1854, pp. 67–71.

—— **437.** Sur la torsion des prismes. Paris, Comptes Rendus, XXXVIII., 1854, pp. 326–332.

—— **438.** Sur la transformation des fonctions implicites en moyennes isotropiques, et sur leurs développements en séries trigonométriques. Paris, Comptes Rendus, XXXVIII., 1854, pp. 910–916.

—— **439.** Formules générales pour la transformation des fonctions implicites en fonctions explicites. Paris, Comptes Rendus, XXXVIII., 1854, pp. 944–952.

—— **440.** Sur la transformation des variables qui déterminent les mouvements d'une planète. Paris, Comptes Rendus, XXXVIII., 1854, pp. 990–993.

—— **441.** Sur les services que la spirale logarithmique peut rendre à l'Astronomie. Paris, Comptes Rendus, XXXVIII., 1854, pp. 1033–1035.

—— **442.** Sur la résolution des équations, et sur le développement de leur racines en séries convergentes. Paris, Comptes Rendus, XXXVIII., 1854, pp. 1105–1108.

—— **443.** Sur une formule de M. Anger et sur d'autres formules analogues. Paris, Comptes Rendus, XXXIX., 1854, pp. 129–135.

—— **444.** Sur l'induction en analyse, et sur l'emploi des formules symboliques. Paris, Comptes Rendus, XXXIX., 1854, pp. 169–177.

—— **445.** Sur les intégrales aux différences finies. Paris, Comptes Rendus, XXXIX., 1854, pp. 214–218.

Cauchy, *Augustin Louis.* **446.** Sur un théorème général qui fournit immédiatement, dans un grand nombre de cas, des limites entre lesquels une série simple ou multiple demeure convergente. Paris, Comptes Rendus, XL., 1855, pp. 162–167.

—— **447.** Sur les avantages que présente l'introduction d'un paramètre variable et des notations propres au calcul des variations dans quelques-unes des principales formules de l'analyse infinitésimal. Paris, Comptes Rendus, XL., 1855, pp. 261–267.

—— **448.** Note sur les conditions de convergence des séries qui représentent les intégrales générales d'un système d'équations différentielles. Paris, Comptes Rendus, XL., 1855, pp. 330–335, 373–376.

—— **449.** Sur la nature des intégrales d'un système d'équations différentielles du 1er ordre. Paris, Comptes Rendus, XL., 1855, pp. 376–381.

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$$\int_0^1 \frac{t^{\mu+\frac{1}{2}}(1-t)^{\mu-\frac{1}{2}}\,dt}{(a+bt-ct^2)^{\mu+1}}$$

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$$\int_o^b \int_b^c \frac{(v^2-\rho^2)\, dv \,.\, d\rho}{\sqrt{(v^2-b^2)(c^2-v^2)(b^2-\rho^2)(c^2-\rho^2)}} = \tfrac{1}{2}\pi.$$

Liouville, Journ. Math. III., 1838, pp. 10 16.

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Chevreul, *Michel Eugène.*

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Chevreul, *Michel Eugène.*

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$$\frac{1}{a\,.\,b}+\frac{1}{b\,.\,c}+\frac{1}{c\,.\,d}+\frac{1}{d\,.\,e}+\ldots,$$

i hvilke Faktorerne $a, b, c, d, e \ldots$ danne en arithmetisk Række. Mathem. Tidssk. III., 1861, pp. 69–73.

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—— **7.** [Bestimmung der Länge von Copenhagen, so wie des Längenunterschiedes zwischen Prag und Copenhagen.] Astr. Nachr. IV., 1826, col. 205–206.

—— **8.** [Beobachtungen des 5ten Cometen vom 1825.] Astr. Nachr. IV., 1826, col. 379–384, 407–414.

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—— **17.** De præcisionis gradu per tabulas Matthiessenianas obtinendo disquisitio. Astr. Nachr. V., 1827, col. 273–278.

—— **18.** Die Function—

$$\frac{1}{a} + \frac{1}{a} + \frac{1}{a} + \frac{1}{a} + \frac{1}{a} \cdots$$

durch die Anzahl der a ausgedrückt. Crelle, Journ. III., 1828, pp. 87–88.

—— **19.** Ueber die Fälle, wenn die Reihe von der Form $y = 1 + \frac{\alpha}{1} . \frac{\beta}{\gamma} x + \frac{\alpha . \alpha + 1}{1 . 2} . \frac{\beta . \beta + 1}{\gamma . \gamma + 1} x^2$ + etc., ein Quadrat von der Form, $z = 1 + \frac{\alpha'}{1} . \frac{\beta'}{\gamma'} . \frac{\delta'}{\epsilon'} x + \frac{\alpha' . \alpha' + 1}{1 . 2} . \frac{\beta' . \beta' + 1}{\gamma' . \gamma' + 1} . \frac{\delta' . \delta' + 1}{\epsilon' . \epsilon' + 1} x^2$ + etc. hat. Crelle, Journ. III., 1828, pp. 89–91.

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—— **21.** Geometrische Sätze. Crelle, Journ. III., 1828, pp. 196–198.

—— **22.** Demonstratio duarum celeberrimi Gaussii propositionum. [Disq. Arithm., p. 17.] Crelle, Journ. III., 1828, p. 311.

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—— **26.** Ueber Interpolation. Crelle, Journ. V., 1829, pp. 305–313.

—— **27.** Ueber centrifugal - Pendel - Uhren. Crelle, Journ. V., 1829, pp. 314–315.

—— **28.** Ueber die Summe der Reihen—

$$1 + \frac{1}{2^3} + \frac{1}{3^3} + \frac{1}{4^3} \cdots \text{ und}$$

$$1 + \frac{1}{7^2} + \frac{1}{13^2} + \frac{1}{19^2} + \cdots$$

Crelle, Journ. V., 1829, pp. 380–382.

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—— **30.** Auflösung zweier Aufgaben aus der sphärischen Trigonometrie. Crelle, Journ. VI., 1830, pp. 84-86, 90.

—— **31.** Ueber mechanische Quadraturen. Crelle, Journ. VI., 1830, pp. 287–289.

—— **32.** Alia solutio problematis a celeberrimo Gauss in opere: "Demonstratio attractionis, quam, etc." tractati. Crelle, Journ. VI., 1830, pp. 290–295.

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—— **35.** Beweis einiger geometrischen Sätze. Crelle, Journ. VII., 1831, pp. 36–40.

—— **36.** Geometrische Auflösung der Aufgabe: In einem Kegelschnitt ein Dreieck zu beschreiben, dessen Seiten verlängert durch die gegebenen Puncte A, B, C. gehen. Crelle, Journ. VII., 1831, pp. 55–56.

—— **37.** Eine neue Art, die Zeit und die Polhöhe zu bestimmen. Crelle, Journ. VII., 1831, pp. 105–107.

—— **38.** Ueber die Formirung der Bedingungs-Gleichungen zur Verbesserung einer Planeten- oder Cometenbahn. Crelle, Journ. VII., 1831, pp. 108–111.

—— **39.** Ueber den Werth der Reihen—

$R_n = 1^n - 2^n + 3^n - 4^n + 5^n -$ &c. und

$S_n = 1^n - 3^n + 5^n -$ &c. in infin.

Crelle, Journ. VII., 1831, pp. 112–115.

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—— **46.** Bestimmungen der Lage der Bahnen der vier kleinen Planeten gegen die Jupitersbahn. Gruithuisen, Neue Analek. I., 1834, pp. 7–8.

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—— **49.** [Ueber die 6 Constanten der elliptischen Bewegung c, c', c'', f, f', f''.] Astr. Nachr. XVII., 1840, col. 319–320.

—— **50.** Beweis dass die algebraischen Gleichungen Wurzeln von der Form $a + bi$ haben. Astr. Nachr. XVII., 1840, col. 325–330.

—— **51.** Zusammenstellung der periodischen Gleichungen von Burgs, Burckhardts und Damoiseau's Mondstafeln. Astr. Nachr. XVII., 1840, pp. 337–346.

—— **52.** Vier neue mondförmige Flächen, deren Inhalt quadrirbar ist. Crelle, Journ. XXI., 1840, pp. 375–376.

—— **53.** Beschreibung eines neuen Micrometers. Astr. Nachr. XVIII., 1841, col. 95–96.

—— **54.** Beweise der beiden ersten Haupttheoreme der Dioptrik. Astr. Nachr. XVIII., 1841, col. 135–140.

—— **55.** Beweis des von Jacobi gefundenen Lehrsatzes, dass ein flüssiges sich um die eine Axe drehendes Sphäroid von drei verschiedenen Hauptaxen in Gleichgewicht sein könne. Astr. Nachr. XVIII., 1841, col. 145–150.

—— **56.** Geometrische Auflösung der Hansenschen Aufgabe: "Aus der Lage zweier bekannten Punkte die Lage zweier unbekannten Punkte zu finden." Astr. Nachr. XVIII., 1841, col. 367–368.

—— **57.** Bestimmung der Bahn des Cometen von 1770. Astr. Nachr. XIX., 1842, col. 121–168.

—— **58.** [Ueber ein Integral—

$$\int \frac{ydy}{(y^3+8)\sqrt{y^3-1}}:$$

in Legendre's "Traité des Fonctions elliptiques."] Astr. Nachr. XIX., 1842, col. 177–178; Grunert, Archiv, III, 1843, pp. 335–336; Nouv. Annal. Math. X., 1851, pp. 362–363.

—— **59.** Beitrag zur Theorie der elliptischen Transcendenten. Astr. Nachr. XIX., 1842, col. 181–184.

—— **60.** Fehler in Burckhardts Mondstafeln. Astr. Nachr. XIX., 1842, col. 221–226.

—— **61.** Entwickelung der Wurzel einer cubischen Gleichung des irreduciblen Falles in einen Kettenbruch. Astr. Nachr. XIX., 1842, col. 241–242.

—— **62.** Die Construction des Siebenzehnecks der Lemniscata. Astr. Nachr. XIX., 1842, col. 243–246.

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—— **67.** Mondculminationen in Altona 1842. Astr. Nachr. XIX., 1842, col. 287–292, 337–342, 385–390.

—— **68.** Ueber eine Ausnahme von einem allgemeinen von Moebius aufgestellten Satz. Astr. Nachr. XIX., 1842, col. 375–376.

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—— **72.** Beweis eines geometrischen Satzes. Grunert, Archiv, II., 1842, pp. 262–266.

—— **73.** [Neue Auflösung des irreduciblen Falls bei den cubischen Gleichungen durch die Kettenbrüche.] Grunert, Archiv, II., 1842, pp. 446–452.

—— **74.** Berichtigung eines von Jacobi aufgestellten Theorems. Astr. Nachr. XX., 1843, col. 13–16.

—— **75.** Mondculminationen in Altona, 1842. Astr. Nachr. XX., 1843, col. 27–32.

—— **76.** Neuer Beweis des von Gauss gefundenen Theorems in der Trigonometrie auf beliebigen krummen Oberflächen. Astr. Nachr. XX., 1843, col. 33–40.

—— **77.** Ueber das Gesetz des Gleichgewichts frei schwimmender Körper. Astr. Nachr. XX., 1843, col. 47–48.

—— **78.** Berichtigung des Fernrohrs am Sextanten. Astr. Nachr. XX., 1843, col. 47–48.

—— **79.** Beweis des Lagrangeschen Theorems. Astr. Nachr. XX., 1843, col. 65–70.

—— **80.** Auflösung einer geometrischen Aufgabe. Astr. Nachr. XX., 1843, col. 69–74.

—— **81.** Ueber Jacobi's Auflösung des Problems der drei Körper. Astr. Nachr. XX., 1843, col. 97–100.

—— **82.** Neue Methode, die Sextantenspiegel zu berichtigen. Astr. Nachr. XX., 1843, col. 173–176.

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—— **88.** Theorem. Astr. Nachr. XXI., 1844, col. 367–368.

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—— **94.** Détermination de la fraction continue périodique à un terme, en fonction du nombre des fractions. Nouv. Annal. Math. V., 1846, pp. 203–204.

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—— **106.** [Letter to the Editor on a contribution by Prof. SCHLÖMILCH in Vol. XII., pp. 293–297.] Grunert, Archiv XIII., 1849, pp. 334–336.

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—— **111.** Einfluss der Refraction auf geodätische Höhenmessungen. Astr. Nachr. XXXI., 1851, col. 283–284.

—— **112.** Beobachtungen auf der Dorpater Sternwarte. Astr. Nachr. XXXI., 1851, col. 341–344.

—— **113.** Ueber den Werth des Kettenbruchs —

$$\cfrac{a+b}{a+\cfrac{1+b+1}{a+2+\cfrac{b+2}{a+3+\text{etc.}}}}$$

wenn b grösser als $a+1$ ist. St. Pétersb., Acad. Sci. Bull. IX., 1851, col. 353–358.

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